

What is claimed is:

1. A printing plate material comprising a substrate and a component layer provided thereon, the substrate having a center line average surface roughness Ra of from 0.2 to 1.0 μm , and an oil-retention volume A2 of from 1 to 10, wherein the center line average surface roughness Ra is obtained from three dimension surface roughness measurement according to JIS-B-0601, and wherein an image is capable of being recorded on the component layer by imagewise exposure of infrared laser.

2. The printing plate material of claim 1, wherein the substrate is an aluminum or aluminum alloy plate which has been subjected to surface roughening treatment, followed by anodizing treatment or hydrophilization treatment.

3. The printing plate material of claim 1, wherein the substrate is a surface roughened aluminum or aluminum alloy plate having deep pits charged with a hydrophilic material or an oleophilic material.

4. The printing plate material of claim 1, wherein the oil-retention volume A2 is from 2 to 8.

5. The printing plate material of claim 1, the component layer being an oleophilic layer, wherein the printing plate material is positive working, and the

oleophilic layer at exposed portions is capable of being removed by development on press.

6. The printing plate material of claim 5, wherein the oleophilic layer varies from hydrophobic to hydrophilic by heating.

7. The printing plate material of claim 1, the component layer being comprised of an oleophilic layer and a hydrophilic layer provided on the oleophilic layer, wherein the printing plate material is negative working, and the hydrophilic layer at exposed portions is capable of being removed by development on press.

8. The printing plate material of claim 1, the component layer being comprised of a hydrophilic layer and an oleophilic layer provided on the hydrophilic layer, wherein the printing plate material is positive working, and at least the oleophilic layer at exposed portions is capable of being removed by development on press.

9. The printing plate material of claim 1, the component layer being capable of being removed by development on press and containing heat melting particles or heat fusible particles, wherein the printing plate material is negative working, and the component layer at exposed portions is incapable of being removed by development on press.

10. The printing plate material of claim 1, wherein the printing material after image recording is capable of being developed with water.

11. The printing plate material of claim 1, wherein the printing material after image recording is capable of being developed on a printing press by supplying a dampening water and/or printing ink.